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Catalyst, its preparation and the polymerization of cyclic ethers  
over this catalyst

## 5 Abstract

The present invention relates to a solid, acid catalyst for the  
preparation of polytetrahydrofuran, polytetrahydrofuran  
copolymers, diesters or monoesters of these polymers by  
10 polymerization of tetrahydrofuran in the presence of at least one  
telogen and/or comonomer, which has a BET surface area of at  
least 160 m<sup>2</sup>/g and an acid center density of at least 0.05 mmol/g  
for pK<sub>a</sub> values of from 1 to 6, to a process for preparing it and  
to a process for the polymerization of cyclic ethers over this  
15 catalyst.

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